

64-04-00

REVIEWED FOR
DESIGN CRITERIA
ONLY



Client:	FG Prescott	Job No.	200542
Job Name:	Yavapai County Standard plans	3 bedroom	
Address:		City:	Prescott
		State:	AZ



MiTek USA, Inc.
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Telephone 916-755-3571

Re: 200542-R3
Yavapai County Standard plans **3 bedroom**

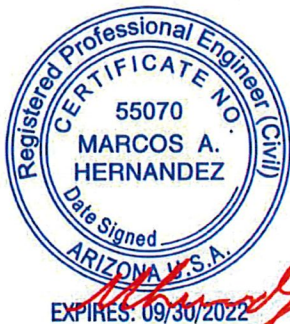
The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Foxworth Galbraith-Dewey, AZ.

Pages or sheets covered by this seal: R63430511 thru R63430532

My license renewal date for the state of Arizona is September 30, 2022.

Arizona COA: 11906-0

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.



August 21, 2020

Hernandez, Marcos

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

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Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430511
200542-R3	A01	COMMON	7	1	Job Reference (optional)	

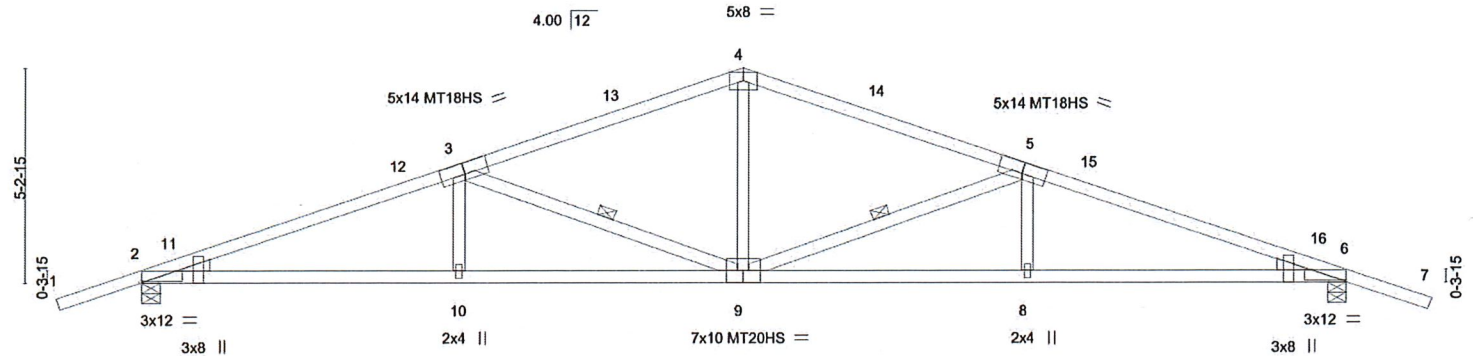
Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8,330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:27 2020 Page 1

ID:9YUPnFKUK98YEd_qA8taEhymKJx-GhctqSqsp2wVzEMPZz7aEvlhphPvlMnae6eev0yldIU

-2-0-0	7-9-6	14-9-0	21-8-10	29-6-0	31-6-0
2-0-0	7-9-6	6-11-10	6-11-10	7-9-6	2-0-0

Scale = 1:54.0



7-9-6	14-9-0	21-8-10	29-6-0
7-9-6	6-11-10	6-11-10	7-9-6

Plate Offsets (X,Y)-- [2:0-0-4,Edge], [2:1-0-0,0-0-6], [3:0-7-0,0-3-4], [5:0-7-0,0-3-4], [6:1-0-0,0-0-6], [6:0-0-4,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.30	8-9	>999	240	MT20 185/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.56	8-9	>626	180	MT20HS 139/108
TCDL 20.0	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.20	6	n/a	n/a	MT18HS 185/144
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-S						Weight: 103 lb FT = 20%
BCDL 10.0									

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF Stud/Std *Except*
5-9,3-9: 2x4 SPF No.2

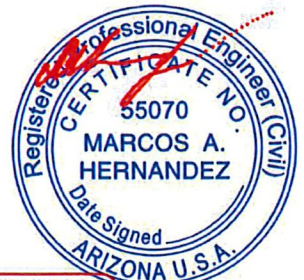
WEDGE
Left: 2x4 HF Stud/Std, Right: 2x4 HF Stud/Std

REACTIONS. (size) 2=0-5-8, 6=0-5-4
Max Horz 2=65(LC 13)
Max Uplift 2=-270(LC 14), 6=-270(LC 14)
Max Grav 2=2332(LC 19), 6=2330(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4952/701, 3-4=-3297/536, 4-5=-3297/536, 5-6=-4957/701
BOT CHORD 2-10=-562/4550, 9-10=-564/4544, 8-9=-581/4550, 6-8=-579/4555
WEBS 4-9=-144/1266, 5-9=-1902/284, 5-8=0/314, 3-9=-1897/283, 3-10=0/314

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 14-9-0, Exterior(2R) 14-9-0 to 17-9-0, Interior(1) 17-9-0 to 31-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=270, 6=270.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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August 21, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430512
200542-R3	A02	HIP	1	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

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ID:9YUPnFKUK98YEd_qA8taEhymKJx-gGLOStUik6zI4qi5_E5gHrYKC8uTSym81L4sJWlyldIR

-2-0-0	4-7-4	8-4-12	14-0-0	15-6-0	21-1-4	24-10-12	29-6-0	31-6-0
2-0-0	4-7-4	3-9-8	5-7-4	1-6-0	5-7-4	3-9-8	4-7-4	2-0-0

Scale = 1:55.8

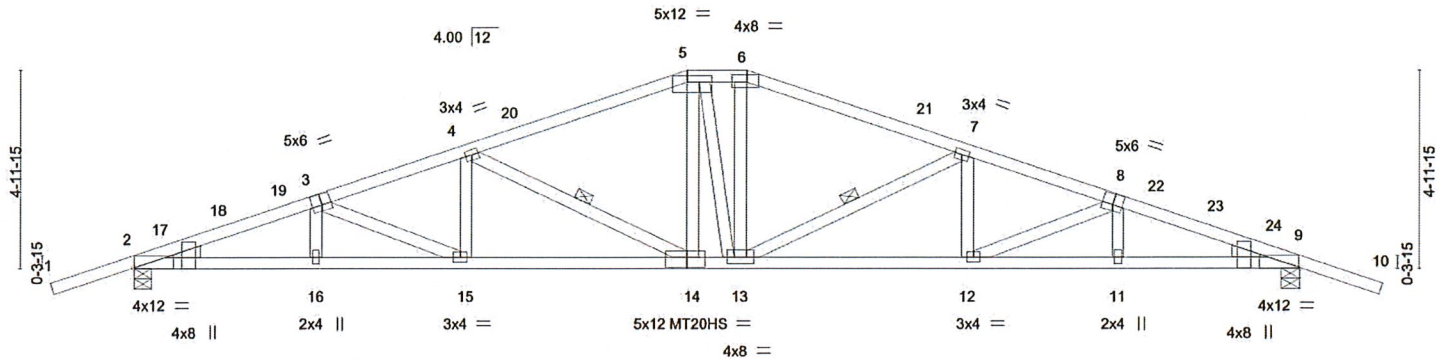


Plate Offsets (X,Y)--	[2:0-0-4,Edge], [2:0-0-3,Edge], [3:0-3-0,0-3-4], [5:0-7-8,0-2-0], [6:0-4-4,0-2-4], [8:0-3-0,0-3-4], [9:0-0-4,Edge], [9:0-0-3,Edge], [14:0-5-8,0-3-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.86	Vert(LL)	-0.43	14-15	>809	240	185/144
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.75	Vert(CT)	-0.66	14-15	>527	180	139/108
TCDL 20.0	Lumber DOL 1.15	WB 0.41	Horz(CT)	0.21	9	n/a	n/a	
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014							
							Weight: 123 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E *Except*
5-6: 2x4 SPF No.2, 1-3,8-10: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x4 HF Stud/Std *Except*
4-14,7-13: 2x4 SPF No.2

WEDGE

Left: 2x4 HF Stud/Std, Right: 2x4 HF Stud/Std

REACTIONS.

(size) 2=0-5-8, 9=0-5-8
Max Horz 2=62(LC 13)
Max Uplift 2=-270(LC 14), 9=-270(LC 14)
Max Grav 2=3064(LC 33), 9=3064(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-6512/750, 3-4=-5857/733, 4-5=-4317/582, 5-6=-3977/579, 6-7=-4328/582,
7-8=-5852/722, 8-9=-6514/740
BOT CHORD 2-16=-631/5989, 15-16=-633/5990, 14-15=-576/5490, 13-14=-358/3964, 12-13=-578/5486,
11-12=-635/5991, 9-11=-633/5991
WEBS 3-15=-544/62, 4-15=0/352, 4-14=-1729/246, 5-14=-81/807, 5-13=-309/375,
6-13=-93/814, 7-13=-1709/244, 7-12=0/344, 8-12=-551/63

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 14-0-0, Exterior(2E) 14-0-0 to 15-6-0, Exterior(2R) 15-6-0 to 19-8-15, Interior(1) 19-8-15 to 31-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 2=270, 9=270.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430513
200542-R3	A03	Hip	1	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

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ID:9YUPnFKUK98YEd_qA8taEhymKJx-dePmtAu_dbYo4?FNLWjlxzPYri5FQhXJoOLPaEYldIP

-2-0-0	6-4-14	12-0-0	17-6-0	23-1-2	29-6-0	31-6-0
2-0-0	6-4-14	5-7-2	5-6-0	5-7-2	6-4-14	2-0-0

Scale = 1:54.9

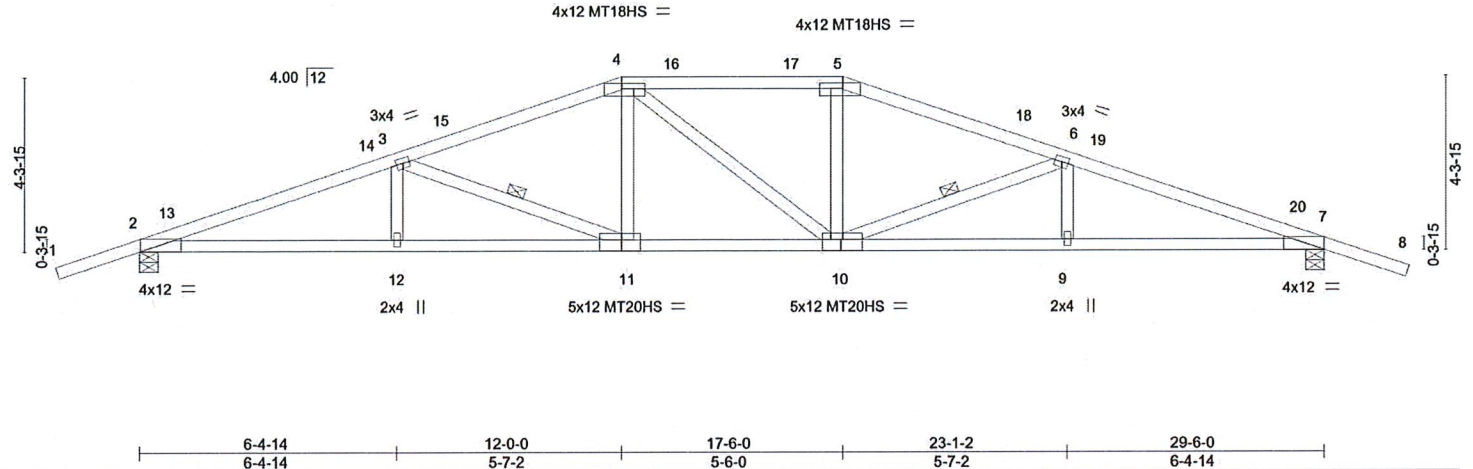


Plate Offsets (X,Y)-- [2:0-0-3,Edge], [4:0-6-12,0-1-12], [5:0-6-12,0-1-12], [7:0-0-3,Edge], [10:0-5-8,0-3-4], [11:0-5-8,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.39	11-12	>898	MT20	185/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.63	11-12	>556	MT20HS	139/108
TCDL 20.0	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.23	7	n/a	MT18HS	185/144
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-S					Weight: 107 lb	FT = 20%
BCDL 10.0									

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF 1650F 1.5E *Except*
10-11: 2x4 SPF No.2
WEBS 2x4 HF Stud/Std *Except*
3-11,4-10,6-10: 2x4 SPF No.2

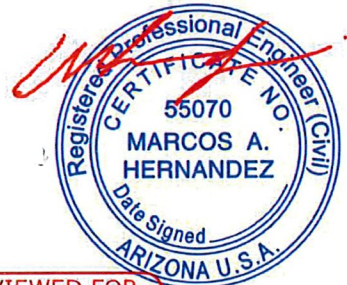
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing, Except:
8-8-0 oc bracing: 9-10.
WEBS 1 Row at midpt 3-11, 6-10

REACTIONS. (size) 2=0-5-8, 7=0-5-8
Max Horz 2=-55(LC 12)
Max Uplift 2=-270(LC 14), 7=-270(LC 14)
Max Grav 2=2853(LC 33), 7=2853(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5872/811, 3-4=-4234/674, 4-5=-3882/673, 5-6=-4253/675, 6-7=-5871/812
BOT CHORD 2-12=-680/5380, 11-12=-680/5380, 10-11=-470/3881, 9-10=-693/5379, 7-9=-693/5379
WEBS 3-11=-1629/226, 4-11=-43/695, 4-10=-357/357, 5-10=-38/700, 6-10=-1612/225

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 17-6-0, Exterior(2R) 17-6-0 to 21-8-15, Interior(1) 21-8-15 to 31-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=270, 7=270.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430514
200542-R3	A04	Hip	1	1	Job Reference (optional)	

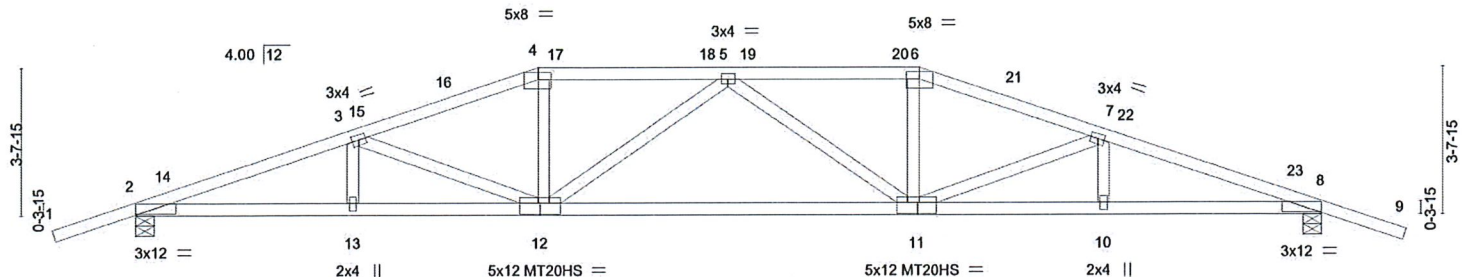
Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:35 2020 Page 1

ID:9YUPnFKUK98YEd_qA8laEhymKJx-1D5vWBwtVxNtZy1eGSYb13sv7Kd_AmUMa3BYldIM

-2-0-0	5-4-14	10-0-0	14-9-0	19-6-0	24-1-2	29-6-0	31-6-0
2-0-0	5-4-14	4-7-2	4-9-0	4-9-0	4-7-2	5-4-14	2-0-0

Scale = 1:54.9



5-4-14	10-0-0	19-6-0	24-1-2	29-6-0
5-4-14	4-7-2	9-6-0	4-7-2	5-4-14

Plate Offsets (X,Y)-- [2:1-0-0,0-0-6], [4:0-4-0,0-2-3], [6:0-4-0,0-2-3], [8:1-0-0,0-0-6], [11:0-6-0,0-3-4], [12:0-6-0,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.36	11-12	>970	240	MT20 185/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.77	11-12	>452	180	MT20HS 139/108
TCDL 20.0	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.20	8	n/a	n/a	
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-S						
BCDL 10.0									
									Weight: 108 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*
4-6: 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF Stud/Std *Except*
5-12,5-11: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-1-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-6-8 oc bracing.

REACTIONS.

(size) 2=0-5-8, 8=0-5-8
Max Horz 2=-47(LC 12)
Max Uplift 2=-270(LC 14), 8=-270(LC 14)
Max Grav 2=2641(LC 33), 8=2641(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-5305/820, 3-4=-4483/701, 4-5=-4176/693, 5-6=-4176/693, 6-7=-4483/701,
7-8=-5305/820
BOT CHORD 2-13=-694/4891, 12-13=-694/4891, 11-12=-627/4573, 10-11=-706/4891, 8-10=-706/4891
WEBS 3-12=-1156/193, 4-12=-87/815, 5-12=-866/147, 5-11=-866/147, 6-11=-86/815,
7-11=-1155/193

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 19-6-0, Exterior(2R) 19-6-0 to 23-8-15, Interior(1) 23-8-15 to 31-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=270, 8=270.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



REVIEWED FOR
DESIGN CRITERIA
ONLY
EXPIRES: 09/30/2022
August 21, 2020

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430515
200542-R3	A05G	Hip Girder	1	2	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:40 2020 Page 1

ID:9YUPnFKUK98YEd_qA8taEhymKJx-OBuoZv_?I2Zf1EsvpBsdFlwRwqYIFKVeeHqsmYdIH

-2-0-0	4-7-14	8-0-0	12-6-9	16-11-7	21-6-0	24-10-2	29-6-0	31-6-0
2-0-0	4-7-14	3-4-2	4-6-9	4-4-13	4-6-9	3-4-2	4-7-14	2-0-0

Scale = 1:55.0

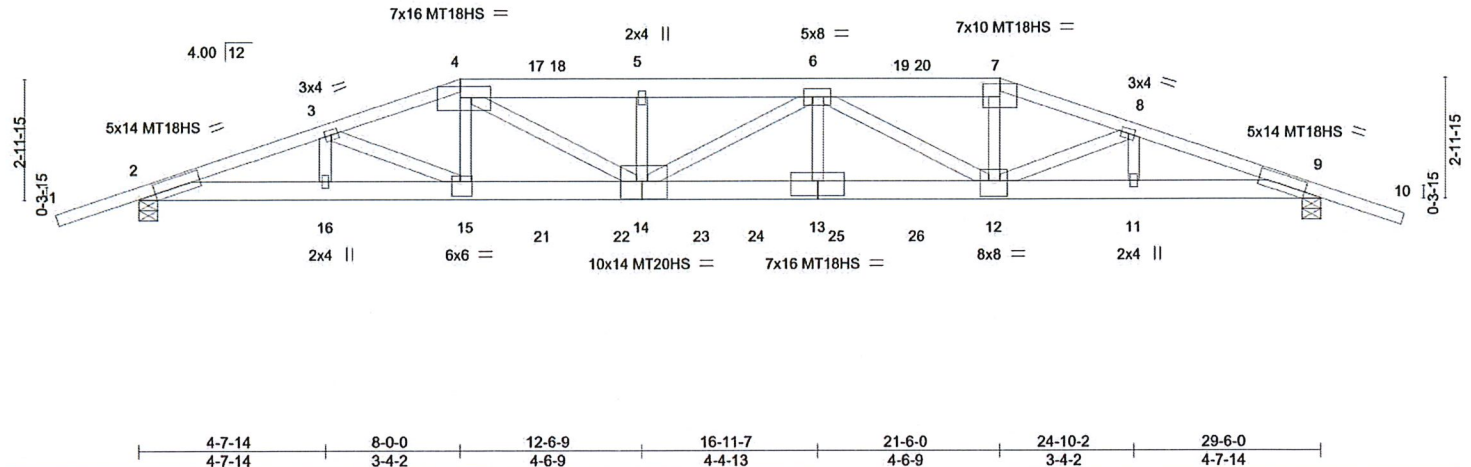


Plate Offsets (X,Y)-- [2:0-5-3,0-3-0], [4:0-5-12,0-3-4], [7:0-5-0,0-2-0], [9:0-5-3,0-3-0], [12:0-4-0,0-4-12], [13:0-8-0,0-4-8], [14:0-6-4,0-5-4], [15:0-2-4,0-4-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES GRIP	
TCLL 40.0		Plate Grip DOL 1.15		TC 0.87		Vert(LL) -0.68 13-14		>512 240		MT20 185/144	
(Roof Snow=40.0)		Lumber DOL 1.15		BC 0.96		Vert(CT) -1.02 13-14		>341 180		MT20HS 148/108	
TCDL 20.0		Rep Stress Incr NO		WB 0.62		Horz(CT) 0.21 9		n/a n/a		MT18HS 197/144	
BCLL 0.0 *		Code IRC2018/TPI2014		Matrix-S						Weight: 274 lb FT = 20%	
BCDL 10.0											

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E *Except*
 4-7: 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
 3-16,3-15,8-12,8-11: 2x4 HF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

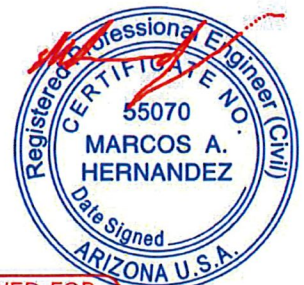
REACTIONS. (size) 2=0-5-8, 9=0-5-8
 Max Horz 2=-41(LC 46)
 Max Uplift 2=-550(LC 10), 9=-550(LC 10)
 Max Grav 2=6286(LC 29), 9=6286(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-16762/1234, 3-4=-17428/1323, 4-5=-21154/1587, 5-6=-21151/1586,
 6-7=-16844/1287, 7-8=-17404/1319, 8-9=-16766/1235
BOT CHORD 2-16=-1099/15775, 15-16=-1099/15775, 14-15=-1162/16723, 13-14=-1478/21215,
 12-13=-1478/21215, 11-12=-1099/15777, 9-11=-1099/15777
WEBS 3-16=-610/97, 3-15=-562/1078, 4-15=-158/2610, 4-14=-353/5088, 5-14=-861/98,
 6-13=-82/1683, 6-12=-5047/356, 7-12=-331/4866, 8-12=-569/1050, 8-11=-590/95

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-3-0 oc, 2x6 - 2 rows staggered at 0-4-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Continued on page 2



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 EXPIRES: 09/30/2022
 August 21, 2020

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MiTek USA, Inc.
 400 Sunrise Avenue, Suite 270
 Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430515
200542-R3	A05G	Hip Girder	1	2	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:40 2020 Page 2
ID:9YUPnFKUK98YEd_qA8taEhymKJx-OBuoZv_?l2Zf1EsvpBsdFlwRwqYIFKVeHqsmYdIH

NOTES-

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=550, 9=550.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1834 lb down and 168 lb up at 8-0-0, 674 lb down and 60 lb up at 10-0-12, 674 lb down and 60 lb up at 12-0-12, 674 lb down and 60 lb up at 14-0-12, 674 lb down and 60 lb up at 15-5-4, 674 lb down and 60 lb up at 17-5-4, and 674 lb down and 60 lb up at 19-5-4, and 1834 lb down and 168 lb up at 21-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-120, 4-7=-120, 7-10=-120, 2-9=-20

Concentrated Loads (lb)

Vert: 15=-1834(B) 12=-1834(B) 21=-674(B) 22=-674(B) 23=-674(B) 24=-674(B) 25=-674(B) 26=-674(B)

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430516
200542-R3	A06	HIP	1	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:42 2020 Page 1

ID:9YUPnFKUK98YEd_qA8taEhymKJx-Ka0Y_a0GHfpNHY0lxcu5L4qEzkWSm66o5ymxxfyldIF

-2-0-0 5-8-11 10-7-9 14-2-8 15-3-8 21-11-14 29-6-0 31-6-0
2-0-0 5-8-11 4-10-15 3-6-15 1-1-0 6-8-6 7-6-2 2-0-0

Scale = 1:55.8

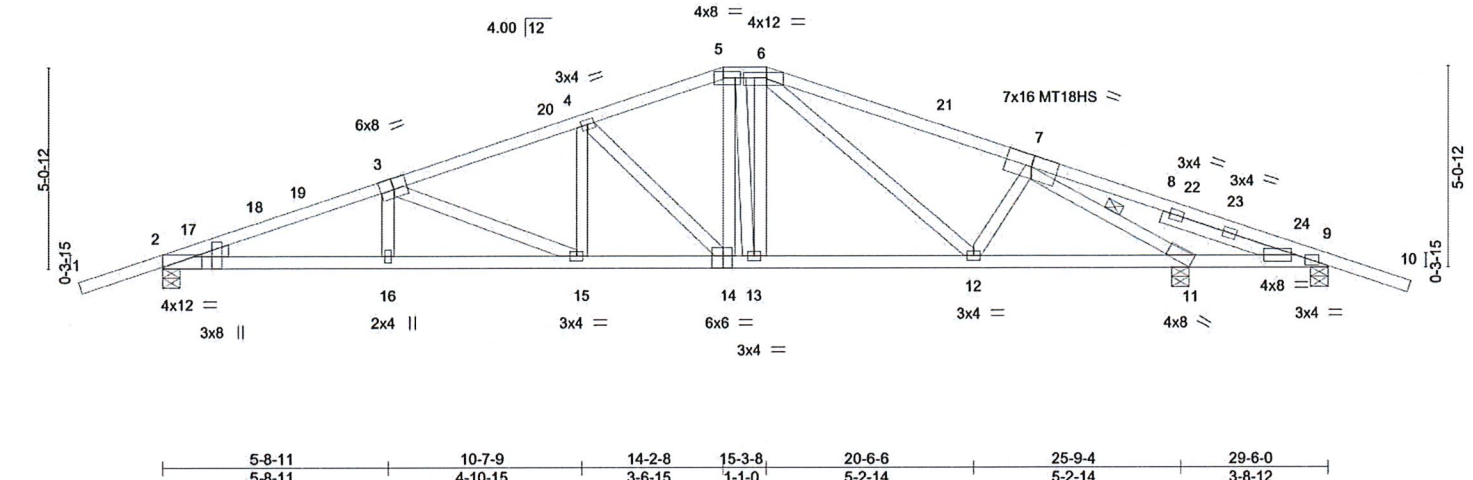


Plate Offsets (X,Y)-- [2:0-0-4,Edge], [2:0-0-3,Edge], [3:0-4-0,Edge], [5:0-5-4,0-2-0], [6:0-6-12,0-1-12], [9:0-1-9,0-2-0], [14:0-2-12,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 1.00	Vert(LL)	-0.33	15-16	>939	MT20	185/144
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.93	Vert(CT)	-0.49	15-16	>626	MT18HS	185/144
TCDL 20.0	Lumber DOL 1.15	WB 0.80	Horz(CT)	0.16	11	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 128 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied.
6-7,7-10: 2x4 SPF 2100F 1.8E, 1-3: 2x4 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
BOT CHORD 2x4 SPF 1650F 1.5E	WEBS 1 Row at midpt 7-11
WEBS 2x4 HF Stud/Std *Except*	
6-12,7-11: 2x4 SPF No.2	

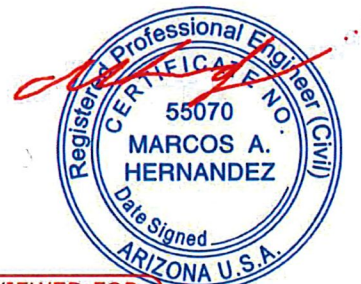
WEDGE Left: 2x4 HF Stud/Std
SLIDER Right 2x4 HF Stud/Std -x 3-6-6

REACTIONS. (size) 2=0-5-8, 9=0-5-4, 11=0-5-8
Max Horz 2=63(LC 13)
Max Uplift 2=-252(LC 14), 9=-161(LC 14), 11=-199(LC 14)
Max Grav 2=2758(LC 33), 9=460(LC 33), 11=2955(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5616/653, 3-4=-4338/571, 4-5=-3215/476, 5-6=-2978/472, 6-7=-3411/493, 7-9=-133/1514
BOT CHORD 2-16=-533/5142, 15-16=-536/5138, 14-15=-392/3990, 13-14=-243/2964, 12-13=-248/2965, 11-12=-339/3055, 9-11=-1241/210
WEBS 3-15=-1240/155, 4-15=-32/589, 4-14=-1458/212, 5-14=-121/845, 5-13=-238/350, 6-13=-177/506, 6-12=-301/378, 7-12=-218/316, 7-11=-5076/603

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 14-2-8, Exterior(2E) 14-2-8 to 15-3-8, Exterior(2R) 15-3-8 to 19-6-7, Interior(1) 19-6-7 to 31-6-9 zone; cantilever right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 7) All plates are MT20 plates unless otherwise indicated.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=252, 9=161, 11=199.

Continued on page 2



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EXPIRES: 09/30/2022
August 21, 2020

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430516
200542-R3	A06	HIP	1	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:43 2020 Page 2
ID:9YUPnFKUK98YEd_qA8taEhymKJx-omawBw1u2zxEulaUVKPKIHMPj7shVZMxKcWVT5yldIE

NOTES-

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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DESIGN CRITERIA
ONLY



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ANSI/TPI1 Quality Criteria, DSB-89 and ECSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430517
200542-R3	A07	Roof Special	1	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:44 2020 Page 1

ID:9YUPnFKUK98YEd_qA8taEhymKJx-Gy8IPG1WpG35Wr9g21wZQVvcfXESE0N4ZF27XyldID

-2-0-0 6-10-14 12-11-15 13-9-7 17-3-8 22-11-14 29-6-0 31-6-0
2-0-0 6-10-14 6-1-2 0-9-7 3-6-1 5-8-6 6-6-2 2-0-0

Scale = 1:55.8

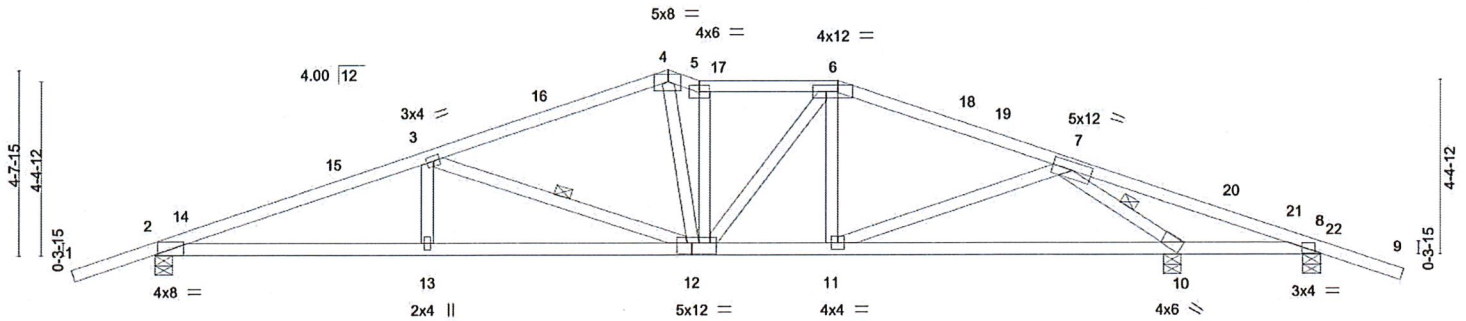


Plate Offsets (X,Y)--	[6:0-7-8,0-2-0], [8:0-1-10,0-0-0], [12:0-4-8,0-3-4]
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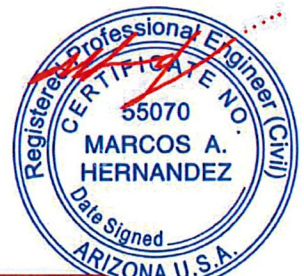
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.86	Vert(LL)	-0.22 12-13	>999	240	MT20	185/144
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.77	Vert(CT)	-0.41 12-13	>762	180		
TCDL 20.0	Lumber DOL 1.15	WB 0.81	Horz(CT)	0.11 10	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S					Weight: 115 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins.
1-4: 2x4 SPF 1650F 1.5E, 6-9: 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 4-5-15 oc bracing.
BOT CHORD 2x4 SPF 1650F 1.5E *Except*	WEBS 1 Row at midpt 3-12, 7-10
8-12: 2x4 SPF No.2	
WEBS 2x4 HF Stud/Std *Except*	
3-12,7-11: 2x4 SPF No.2	

REACTIONS.	(size) 2=0-5-8, 10=0-5-8, 8=0-5-4
Max Horz 2=58(LC 13)	
Max Uplift 2=250(LC 14), 10=175(LC 14), 8=143(LC 36)	
Max Grav 2=2076(LC 19), 10=2532(LC 35), 8=414(LC 35)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-4254/649, 3-4=-2681/497, 4-5=-2634/527, 5-6=-2599/521, 6-7=-2645/465, 7-8=-211/1628
BOT CHORD	2-13=-520/3896, 12-13=-520/3896, 11-12=-258/2369, 10-11=-250/1807, 8-10=-1420/278
WEBS	3-13=0/300, 3-12=-1750/245, 4-12=-152/1191, 5-12=-958/160, 6-12=-87/679, 7-11=-38/984, 7-10=-3839/632

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 12-11-15, Exterior(2E) 12-11-15 to 13-9-7, Interior(1) 13-9-7 to 17-3-8, Exterior(2R) 17-3-8 to 20-3-8, Interior(1) 20-3-8 to 31-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=250, 10=175, 8=143.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



REVIEWED FOR DESIGN CRITERIA ONLY EXPIRES: 09/30/2022 August 21, 2020

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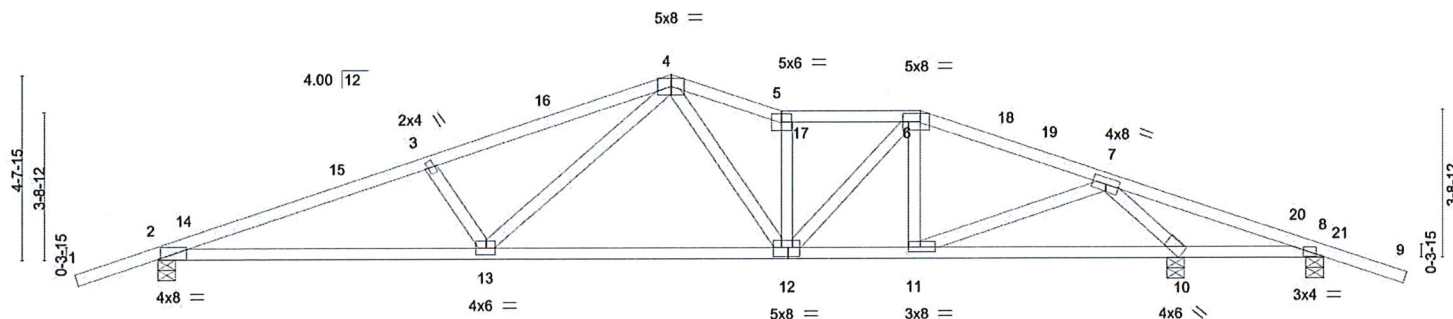


MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:46 2020 Page 1
ID:9YUPnFKUK98YED qA8taEhymKJx-CLF3py3mKuJpl9J3ASz1Vw_yoLwcluiNN0Zk94QydlB

-2.0-0	6-10-14	12-11-15	15-9-7	19-3-8	23-11-14	29-6-0	31-6-0
2.0-0	6-10-14	6-1-2	2-9-7	3-6-1	4-8-6	5-6-2	2-0-0

Scale = 1:55.8



		8-3-9		15-9-7		19-3-8		25-9-4		29-6-0		
		8-3-9		7-5-13		3-6-1		6-5-12		3-8-12		
Plate Offsets (X,Y)-- [6:0-5-4,0-2-8], [8:0-2-2,0-0-0], [11:0-3-8,0-1-8], [12:0-3-12,0-3-0]												
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP
TCLL	40.0		2-0-0	TC	0.81	in (loc)	L/defl	L/d		MT20	185/144	
(Roof Snow=40.0)				BC	0.79	Vert(LL)	-0.21 12-13	>999	240			
TCDL	20.0			WB	0.84	Vert(CT)	-0.40 12-13	>778	180			
BCLL	0.0 *		Rep Stress Incr YES			Horz(CT)	0.10 10	n/a	n/a			
BCDL	10.0		Code IRC2018/TPI2014	Matrix-S						Weight: 111 lb	FT = 20%	

LUMBER- TOP CHORD	2x4 SPF No.2 *Except* 1-4: 2x4 SPF 2100F 1.8E, 6-9: 2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF No.2 *Except* 2-12: 2x4 SPF 1650F 1.5E
WEBS	2x4 HF Stud/Std *Except* 4-13: 2x4 SPF No.2

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-4-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 10=0-5-8, 8=0-5-4
 Max Horz 2=58(LC 13)
 Max Uplift 2=-248(LC 14), 10=-192(LC 14), 8=-229(LC 36)
 Max Grav 2=2065(LC 19), 10=2609(LC 20), 8=328(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4220/649, 3-4=-3719/622, 4-5=-3136/597, 5-6=-2848/536, 6-7=-2540/441,
7-8=-249/1816

BOT CHORD 2-13=-520/3869, 12-13=-285/2414, 11-12=-254/2290, 10-11=-141/1116, 8-10=-1615/310

WEBS 3-13=-984/209, 4-13=-167/1471, 4-12=-155/1178, 5-12=-1443/264, 6-12=-146/1020,
6-11=-460/93, 7-11=-161/1495, 7-10=-3547/585


NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 12-11-15, Exterior(2E) 12-11-15 to 15-9-7, Interior(1) 15-9-7 to 19-3-8, Exterior(2R) 19-3-8 to 22-3-8, Interior(1) 22-3-8 to 31-6-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grill DOL=1.60
- 2) TCDL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=248, 10=192, 8=229.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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EXPIRES: 09/30/2022
August 21, 2020

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WARNING: Verify design parameters and READ NOTES ON THIS AND INCLUDED LITER REFERENCE PAGE MP-1701169, 1702026 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430519
200542-R3	A09	Roof Special	1	1	Job Reference (optional)	

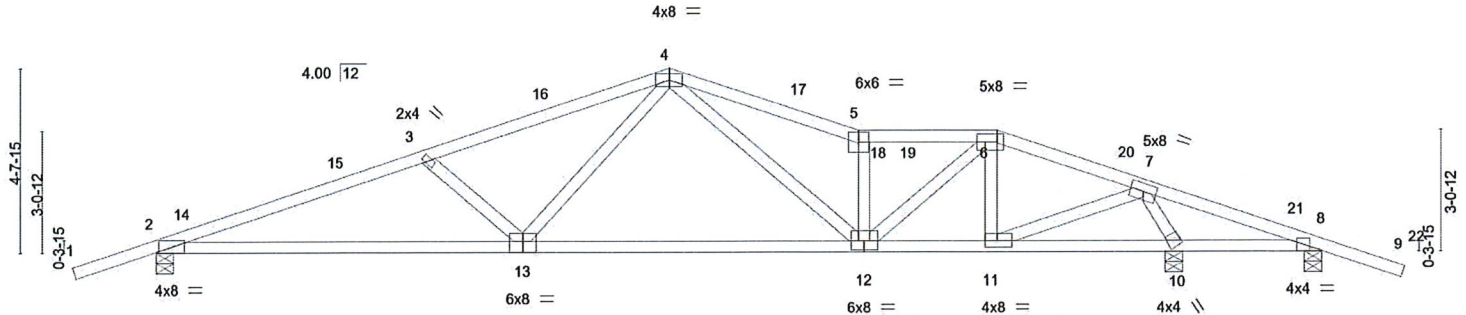
Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:48 2020 Page 1

ID:9YUPnFKUK98YEd_qA8laEhymKJx-9jNpEe51sVZX?TTRHl?VaL4IK8aKaPegUIDF8lyldl9

-2-0-0	6-10-14	12-11-15	17-9-7	21-3-8	24-11-14	29-6-0	31-6-0
2-0-0	6-10-14	6-1-2	4-9-7	3-6-1	3-8-6	4-6-2	2-0-0

Scale = 1:55.8



	9-3-9	17-9-7	21-3-8	25-9-4	29-6-0
	9-3-9	8-5-13	3-6-1	4-5-12	3-8-12

Plate Offsets (X,Y)-- [6:0-6-0,0-2-8], [8:0-3-10,Edge], [11:0-3-8,0-2-0], [13:0-4-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.81	Vert(LL)	-0.22	12-13	>999	MT20	185/144
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.84	Vert(CT)	-0.44	12-13	>703		
TCDL 20.0	Lumber DOL 1.15	WB 0.82	Horz(CT)	0.09	10	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 108 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*
1-4: 2x4 SPF 2100F 1.8E, 5-6: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-13: 2x4 SPF 1650F 1.5E
WEBS 2x4 HF Stud/Std *Except*
4-13,4-12,7-11: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-11-12 oc bracing.

REACTIONS.

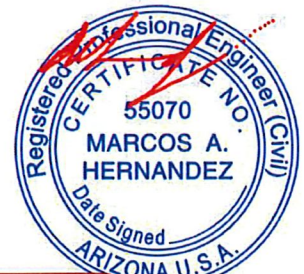
(size) 2=0-5-8, 10=0-5-8, 8=0-5-4
Max Horz 2=58(LC 13)
Max Uplift 2=-245(LC 14), 10=-215(LC 14), 8=-405(LC 36)
Max Grav 2=2099(LC 36), 10=2821(LC 20), 8=241(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4317/635, 3-4=-3503/547, 4-5=-3414/613, 5-6=-3033/528, 6-7=-2024/357,
7-8=-316/2197
BOT CHORD 2-13=-507/3963, 12-13=-265/2366, 11-12=-193/1797, 10-11=-599/120, 8-10=-1992/366
WEBS 3-13=-1099/230, 4-13=-111/1227, 4-12=-171/1260, 5-12=-1730/309, 6-12=-234/1612,
6-11=-856/146, 7-11=-346/2412, 7-10=-3107/516

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 12-11-15, Exterior(2R) 12-11-15 to 15-11-15, Interior(1) 15-11-15 to 21-3-8, Exterior(2R) 21-3-8 to 24-3-8, Interior(1) 24-3-8 to 31-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=245, 10=215, 8=405.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430520
200542-R3	A10	Roof Special	1	1	Job Reference (optional)	

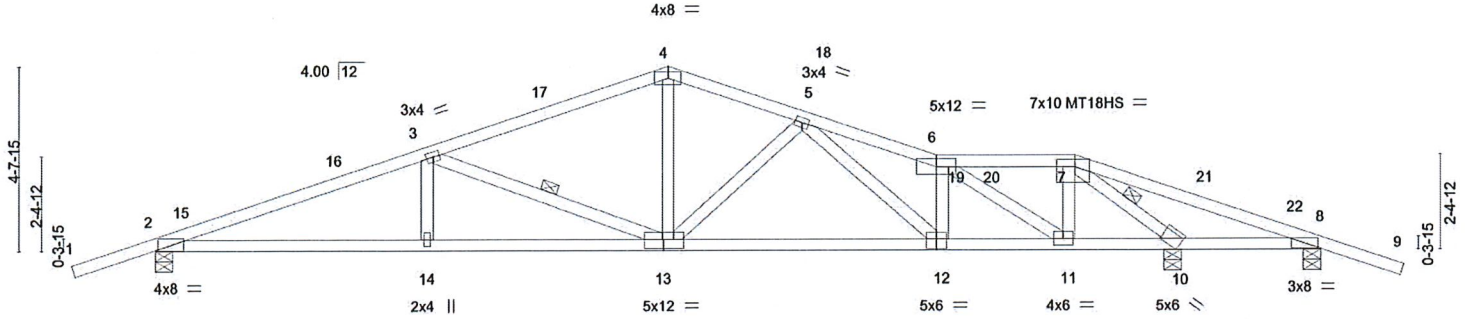
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ID:9YUPnFKUK98YEd_qA8taEhymKJx-56VafJ6HO6qFEmdqPI1zfm9deyGcelrxbIMDBYld17

-2-0-0	6-10-14	12-11-15	16-4-11	19-9-7	23-3-8	29-6-0	31-6-0
2-0-0	6-10-14	6-1-2	3-4-12	3-4-12	3-6-1	6-2-8	2-0-0

Scale = 1:55.8



	6-10-14	12-11-15	19-9-7	23-3-8	25-9-4	29-6-0
	6-10-14	6-1-2	6-9-7	3-6-1	2-5-12	3-8-12

Plate Offsets (X,Y)-- [7:0-5-8,0-2-0], [10:Edge,0-0-8], [12:0-3-0,0-3-4], [13:0-6-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.89	Vert(LL)	-0.24 13-14	>999	240	MT20	185/144
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.85	Vert(CT)	-0.42 12-13	>740	180	MT18HS	185/144
TCDL 20.0	Lumber DOL 1.15	WB 0.88	Horz(CT)	0.12 10	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 111 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-4: 2x4 SPF 1650F 1.5E, 7-9: 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
2-13: 2x4 SPF 1650F 1.5E
WEBS 2x4 HF Stud/Std *Except*
3-13: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-5-10 oc bracing.
WEBS 1 Row at midpt 3-13, 7-10

REACTIONS.

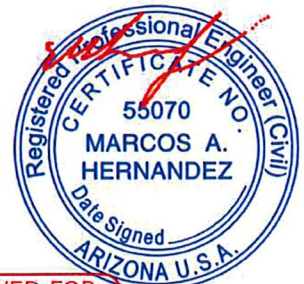
(size) 2=0-5-8, 10=0-5-8, 8=0-5-4
Max Horz 2=58(LC 13)
Max Uplift 2=-246(LC 14), 10=-213(LC 14), 8=-446(LC 36)
Max Grav 2=2087(LC 36), 10=2824(LC 20), 8=319(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4285/612, 3-4=-2679/459, 4-5=-2564/470, 5-6=-3555/604, 6-7=-1212/251,
7-8=-343/2472
BOT CHORD 2-14=-484/3927, 13-14=-484/3927, 12-13=-359/2891, 11-12=-411/3285, 10-11=-129/1125,
8-10=-2234/407
WEBS 3-14=0/259, 3-13=-1671/250, 4-13=-147/1059, 5-13=-928/166, 5-12=-84/584,
6-12=-274/101, 6-11=-2445/345, 7-11=-163/1249, 7-10=-4185/654

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 12-11-15, Exterior(2R) 12-11-15 to 15-11-15, Interior(1) 15-11-15 to 23-3-8, Exterior(2R) 23-3-8 to 26-3-8, Interior(1) 26-3-8 to 31-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 2=246, 10=213, 8=446.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430521
200542-R3	A11	ROOF SPECIAL	1	1	Job Reference (optional)	

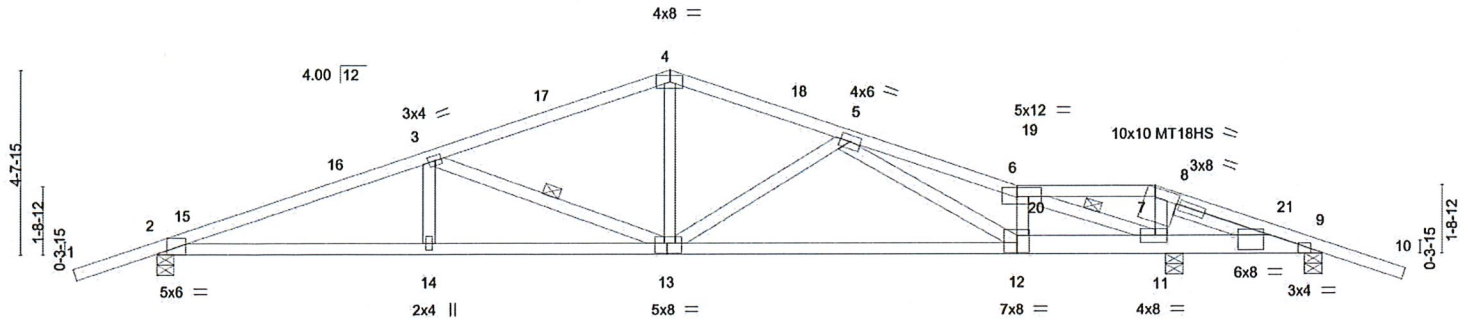
Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:52 2020 Page 1

ID:9YUPnFKUK98YEd_qA8taEhymKJx-1VdK478Xwk4yT4nDWj4RIBEzJmy_6atGOVBTH3yld5

-2-0-0	6-10-14	12-11-15	17-4-11	21-9-7	25-3-8	29-6-0	31-6-0
2-0-0	6-10-14	6-1-2	4-4-12	4-4-12	3-6-1	4-2-8	2-0-0

Scale = 1:55.8



	6-10-14	12-11-15	21-9-7	25-3-8	26-0-0	29-6-0
	6-10-14	6-1-2	8-9-7	3-6-1	0-8-8	3-6-0

Plate Offsets (X,Y)-- [2:0-3-3,Edge], [6:0-7-8,0-2-12], [7:0-6-15,0-2-11], [9:1-7-7,Edge], [9:0-1-5,0-4-5], [11:0-3-8,0-2-0], [12:0-4-0,0-3-4], [13:0-3-8,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.88	Vert(LL)	-0.21 13-14	>999	240	MT20	185/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.44 12-13	>681	180	MT18HS	185/144
TCDL 20.0	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.10 11	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-S						
BCDL 10.0								Weight: 114 lb	FT = 20%

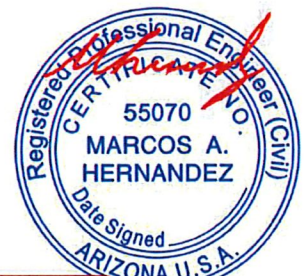
LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
1-4: 2x4 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
BOT CHORD 2x4 SPF 1650F 1.5E *Except*	5-0-8 oc bracing: 9-11.
9-12: 2x6 SPF 1650F 1.5E, 12-13: 2x4 SPF No.2	WEBS 1 Row at midpt 3-13, 6-11
WEBS 2x4 HF Stud/Std *Except*	
3-13, 5-13, 12: 2x4 SPF No.2	
SLIDER Right 2x4 HF Stud/Std -x 2-6-0	

REACTIONS.	(size)	2-0-5-8, 11=0-5-8, 9=0-5-4
Max Horz	2=-59(LC 12)	
Max Uplift	2=-236(LC 14), 11=-253(LC 14), 9=-642(LC 36)	
Max Grav	2=1978(LC 36), 11=3210(LC 20), 9=153(LC 41)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3956/560, 3-4=-2358/403, 4-5=-2303/412, 5-6=-1900/301, 6-7=-342/2593, 7-9=-412/2950
BOT CHORD	2-14=-432/3618, 13-14=-432/3618, 12-13=-306/2580, 11-12=-148/1725, 9-11=-2737/471
WEBS	3-13=-1673/254, 4-13=-101/822, 5-13=-718/136, 5-12=-1086/194, 6-12=-27/652, 6-11=-4562/635, 7-11=-1349/232

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 12-11-15, Exterior(2R) 12-11-15 to 15-11-15, Interior(1) 15-11-15 to 25-3-8, Exterior(2R) 25-3-8 to 28-3-8, Interior(1) 28-3-8 to 31-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 7) All plates are MT20 plates unless otherwise indicated.
 - 8) The Fabrication Tolerance at joint 7 = 8%
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=236, 11=253, 9=642.

Continued on page 2



REVIEWED FOR DESIGN CRITERIA ONLY
EXPIRES: 09/30/2022
August 21, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430521
200542-R3	A11	ROOF SPECIAL	1	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:52 2020 Page 2
ID:9YUPnFKUK98YEd_qA8taEhymKJx-1VdK478Xwk4yT4nDWj4RIBEzJmy_6atGOVBTH3yldI5

NOTES-

12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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DESIGN CRITERIA
ONLY



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430522
200542-R3	A12	Roof Special	1	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:54 2020 Page 1

ID:9YUPnFKUK98YEd_qA8taEhymKJx-ztk4Vh9nSLKjOwbe86vqckKwZbpaVGZspgaMyiyl3

-2-0-0	6-10-14	12-11-15	18-4-11	23-9-7	27-3-8	29-6-0	31-6-0
2-0-0	6-10-14	6-1-2	5-4-12	5-4-12	3-6-1	2-2-8	2-0-0

Scale = 1:55.8

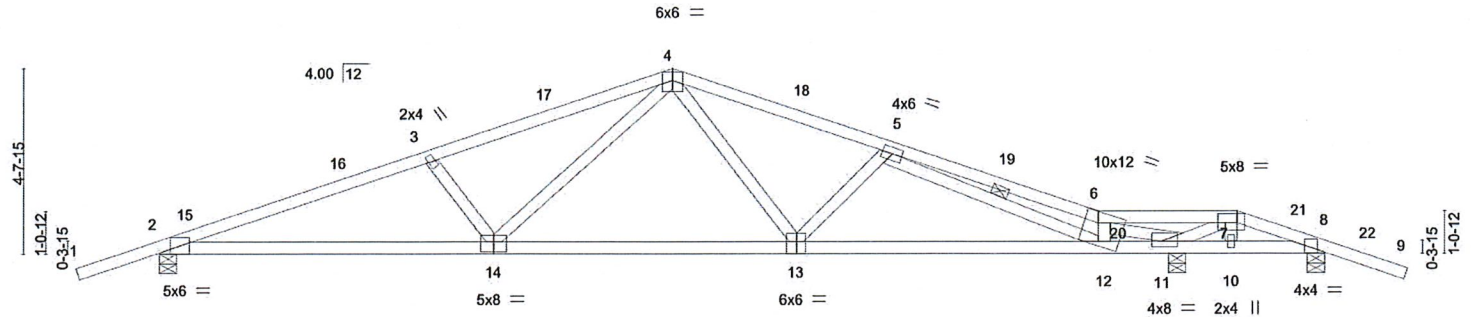


Plate Offsets (X,Y)--	[2:0-3-7,Edge], [6:0-4-4,0-3-4], [7:0-5-12,0-2-12], [8:0-2-2,Edge], [11:0-3-0,0-1-8], [13:0-3-0,Edge], [14:0-4-0,0-3-0]
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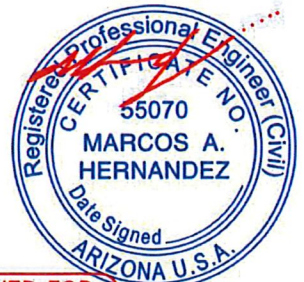
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.80	in (loc) l/defl L/d	MT20	185/144
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.96	Vert(LL) -0.20 13-14 >999 240		
TCDL 20.0	Lumber DOL 1.15	WB 0.91	Vert(CT) -0.38 13-14 >803 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.12 11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 106 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
1-4: 2x4 SPF 2100F 1.8E, 4-6: 2x4 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
BOT CHORD 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt 5-12
2-14: 2x4 SPF 1650F 1.5E	
WEBS 2x4 HF Stud/Std *Except*	
4-14,4-13,5-12: 2x4 SPF No.2	

REACTIONS.	(size) 2=0-5-8, 11=0-5-8, 8=0-5-4
	Max Horz 2=58(LC 13)
	Max Uplift 2=-243(LC 14), 11=-201(LC 14), 8=-126(LC 37)
	Max Grav 2=2045(LC 36), 11=2576(LC 35), 8=467(LC 41)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-4157/605, 3-4=-3575/567, 4-5=-3093/498, 5-6=-1600/243, 6-7=-310/2340, 7-8=-216/1375
BOT CHORD	2-14=-479/3810, 13-14=-240/2318, 12-13=-395/3341, 11-12=-122/1570, 10-11=-1305/291, 8-10=-1269/275
WEBS	3-14=-1004/212, 4-14=-160/1415, 4-13=-82/933, 5-13=-824/165, 5-12=-2137/313, 6-12=-50/894, 6-11=-4335/564, 7-11=-1291/168

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 12-11-15, Exterior(2R) 12-11-15 to 15-11-15, Interior(1) 15-11-15 to 27-3-8, Exterior(2R) 27-3-8 to 30-3-8, Interior(1) 30-3-8 to 31-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=243, 11=201, 8=126.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



REVIEWED FOR DESIGN CRITERIA ONLY EXPIRES: 09/30/2022 August 21, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

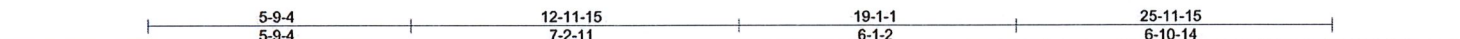
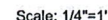


MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

R63430523

Job Reference (optional)

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:55 2020 Page 1
98YEd_gA8laEhvmK.lx-S4ITi1AQDfSXKYVoCrd8MpsSgzzlJ2Uj5TQ7uOvldl2



LUMBER-


BRACING-

REACTIONS.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

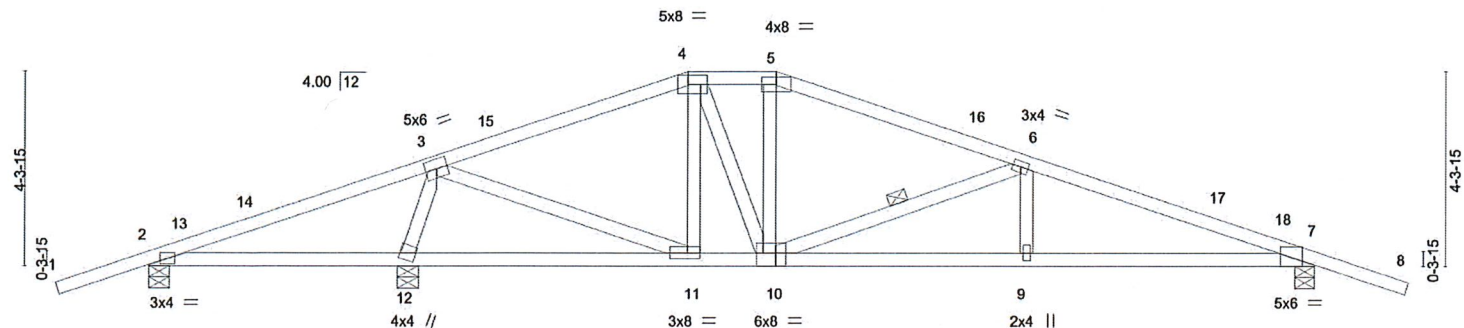
- REVIEWED FOR
DESIGN CRITERIA
ONLY
- EXPIRES: 09/30/2022
August 21, 2020

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

WARNING: - Verify design parameters and READ NOTES ON THIS AND INCLUDED RITER REFERENCE FASE MIP-471169. 3/19/2020 DEL ORE USE.
Design valid for use only upon MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327, 8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:57 2020 Page 1
ID:9YUPnFKUK98YEd_qA8taEhymKJx-OSQD7jCgIGfArAJGfscEyrTnekxsz?YnVezHyldl0
-2-0-0 6-4-14 12-0-0 13-11-15 19-7-1 25-11-15 27-11-15
2-0-0 6-4-14 5-7-2 1-11-15 5-7-2 6-4-14 2-0-0
Scale = 1:49.2



	5-9.4	12-0-0	13-11-15	19-7-1	25-11-15
	5-9.4	6-2-12	1-11-15	5-7-2	6-4-14
Plate Offsets (X,Y)--	[4:0-5.4, 0-2-8],	[7:0-3-3, Edge],	[10:0-2-12, Edge],	[11:0-3-8, 0-1-8]	

[illegible]

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 2100F 1.8E *Except*	TOP CHORD	Structural wood sheathing directly applied or 3-4-5 oc purlins.
	4-5: 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
BOT CHORD	2x4 SPF No.2	WEBS	1 Row at midpt 6-10
WEBS	2x4 HF Stud/Std *Except*		
	3-11,6-10: 2x4 SPF No.2		

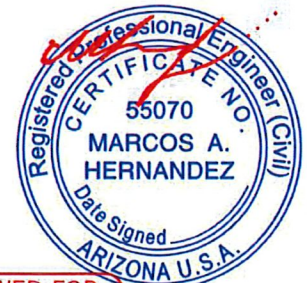
REACTIONS. (size) 2=0-5-8, 12=0-5-8, 7=0-5-4
 Max Horz 2=55(LC 13)
 Max Uplift 2=-123(LC 14), 12=-158(LC 14), 7=-213(LC 14)
 Max Grav 2=567(LC 33), 12=2725(LC 33), 7=2119(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-107/1241, 3-4=-1716/289, 4-5=-1737/340, 5-6=-2003/326, 6-7=-3694/476
BOT CHORD	2-12=-999/169, 11-12=-301/61, 10-11=-103/1439, 9-10=-376/3327, 7-9=-376/3327
WEBS	3-12=-2696/378, 3-11=-179/1758, 4-11=-556/95, 4-10=-105/751, 6-10=-1705/243, 6-9=0/260

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 12-0-0, Exterior(2E) 12-0-0 to 13-11-5, Exterior(2R) 13-11-5 to 18-2-13, Interior(1) 18-2-13 to 28-0-8 zone; cantilever left and right exposed; and vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TOLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=123, 12=158, 7=213.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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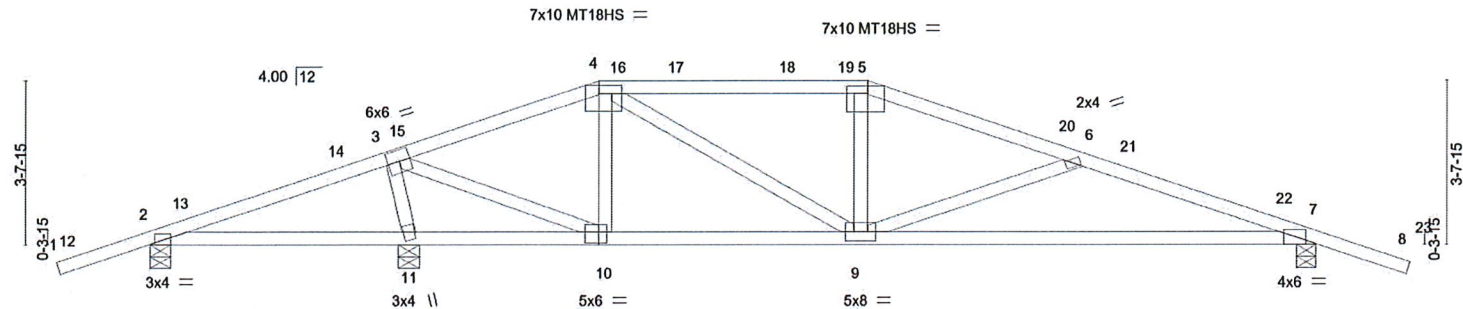
EXPIRES: 09/30/2022
August 21, 2020

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327, 8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:35:58 2020 Page 1

ID:9YUPnFKUK98YEd_qA8taEhymKJx-sf_bL3CIWaq6B?EMtzAr_SU_5A14WON8nRenVjyld?

2-0-0 5-4-14 10-0-0 15-11-15 20-7-1 25-11-15 27-11-15
2-0-0 5-4-14 4-7-2 5-11-15 4-7-2 5-4-14 2-0-0

Scale = 1:49.2

[illegible]

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 4-5: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins. Rigid ceiling directly applied or 5-6-15 oc bracing.
BOT CHORD	2x4 SPF No.2 *Except* 7-10: 2x4 SPF 1650F 1.5E	BOT CHORD	
WEBS	2x4 SPF No.2 *Except* 3-11,4-10,5-9: 2x4 HF Stud/Std		



REACTIONS. (size) 2=0-5-8, 11=0-5-8, 7=0-5-4
 Max Horz 2=-47(LC 12)
 Max Uplift 2=-127(LC 14), 11=-155(LC 14), 7=-213(LC 14)
 Max Grav 2=685(LC 33), 11=2315(LC 33), 7=1987(LC 33)

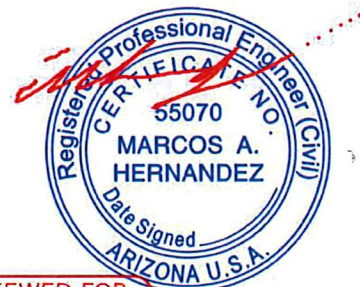
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-70/722, 3-4=-1382/281, 4-5=-2184/404, 5-6=-2421/397, 6-7=-3381/567
BOT CHORD	2-11=-630/132, 10-11=-1051/215, 9-10=-117/1170, 7-9=-468/3083
WEBS	3-11=-2249/375, 3-10=-362/2389, 4-10=-797/150, 4-9=-140/1197, 6-9=-1232/240

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 15-11-15, Exterior(2R) 15-11-15 to 20-2-13, Interior(1) 20-2-13 to 28-0-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=127, 11=155, 7=213.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



REVIEWED FOR
DESIGN CRITERIA
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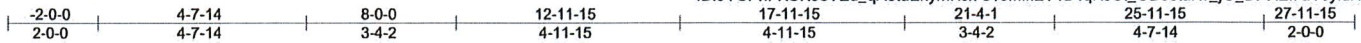
EXPIRES: 09/30/2022
August 21, 2020

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430526
200542-R3	B04G	Hip Girder	1	2	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:36:00 2020 Page 1

ID:9YUPnFKUK98YEd_qA8taEhymKJx-o16MikEY1B4qRJOI_ODJ3taKv_jO_DPREI7uYcyldHz



Scale = 1:49.2

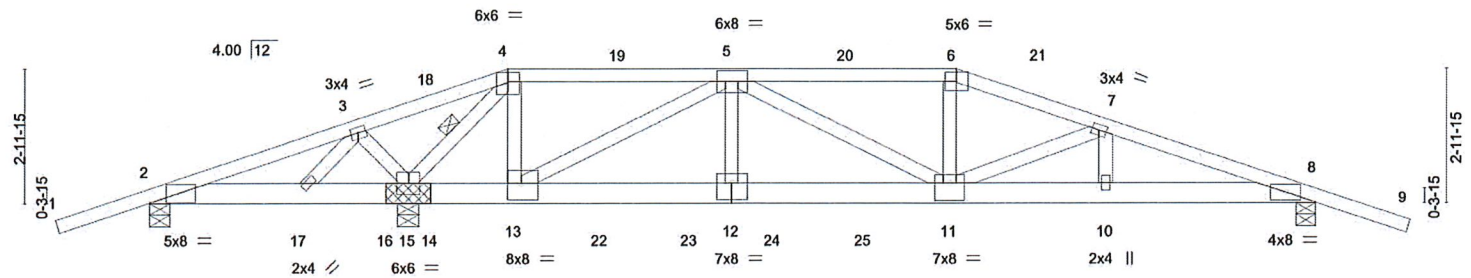


Plate Offsets (X,Y)--	[2:0-4-6,0-0-0], [4:0-3-0,0-2-8], [11:0-4-0,0-4-12], [12:0-4-0,0-4-8], [13:0-3-8,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.24	11-12	>999	240	185/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.35	11-12	>682	180	
TCDL 20.0	Rep Stress Incr	NO	WB 0.94	Horz(CT)	0.06	8	n/a	n/a	
BCLL 0.0	Code IRC2018/TPI2014		Matrix-S						
BCDL 10.0									
								Weight: 236 lb	FT = 20%

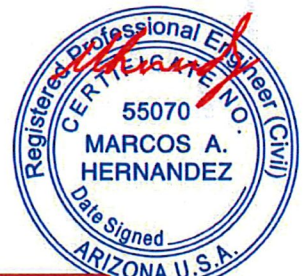
LUMBER-	BRACING-
TOP CHORD	TOP CHORD
BOT CHORD	BOT CHORD
WEBS	WEBS
2x4 SPF No.2	Structural wood sheathing directly applied or 3-1-0 oc purlins.
2x6 SPF 1650F 1.5E	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2x4 SPF No.2 *Except*	6-0-0 oc bracing: 2-17,15-17.
3-17,3-15,4-15,7-11,7-10: 2x4 HF Stud/Std	1 Row at midpt 4-15

REACTIONS. (size) 2=0-5-8, 15=(0-5-8 + bearing block) (req. 0-6-1), 8=0-5-4
Max Horz 2=-40(LC 8)
Max Uplift 2=-1038(LC 16), 15=-563(LC 10), 8=-357(LC 10)
Max Grav 2=511(LC 37), 15=7739(LC 15), 8=3841(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-308/3999, 3-4=-247/4089, 4-5=-2403/229, 5-6=-8732/684, 6-7=-9119/701,
7-8=-9231/669
BOT CHORD 2-17=-3741/345, 15-17=-3696/298, 13-15=-130/2114, 12-13=-527/8130, 11-12=-527/8130,
10-11=-563/8651, 8-10=-563/8651
WEBS 3-15=-680/56, 4-15=-9071/649, 4-13=-346/5211, 5-13=-6545/474, 5-12=-93/1938,
5-11=-83/1055, 6-11=-143/2284, 7-11=-723/245, 7-10=-347/75

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 15-4 2x4 - 1 row at 0-7-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 2x6 SPF 1650F 1.5E bearing block 12" long at jt. 15 attached to each face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners per block. Bearing is assumed to be SPF 1650F 1.5E.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Continued on page 2



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August 21, 2020

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430526
200542-R3	B04G	Hip Girder	1	2	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:36:01 2020 Page 2
ID:9YUPnFKUK98YEd_qA8taEhymKJx-GDfkz4FBoVCh2TzxY6kYc46VfO3djgfbTPTIS52yldHy

NOTES-

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1038, 15=563, 8=357.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1834 lb down and 168 lb up at 8-0-0, 674 lb down and 60 lb up at 10-0-12, 674 lb down and 60 lb up at 12-0-12, 674 lb down and 60 lb up at 13-11-3, and 674 lb down and 60 lb up at 15-11-3, and 1834 lb down and 168 lb up at 17-11-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-120, 4-6=-120, 6-9=-120, 2-8=-20

Concentrated Loads (lb)

Vert: 13=-1834(F) 11=-1834(F) 22=-674(F) 23=-674(F) 24=-674(F) 25=-674(F)

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:36:02 2020 Page 1
ID:9YlPpEKlUK98YEd_gA8taEhvmKlx-KOD6AQEpZcKYarX86pEn8lfndoToSDckci3c2dlJvldHx



WARNING: Verify design parameters and READ NOTES ON THIS AND INCLUDED INFORMATION BEFORE USE. THIS PRODUCT IS NOT TO BE USED FOR ANY OTHER APPLICATIONS THAN THOSE SPECIFIED IN THE DESIGN VALIDATION REPORT. The design is based on the information provided by the user. The user is responsible for the design and its application. The user must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPIF Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601.



Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430527
200542-R3	J01G	DIAGONAL HIP GIRDER	4	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:36:02 2020 Page 2
ID:9YUPnFKUK98YEd_qA8taEhymKJx-kQD6AQFpZoKYgcX86pFn8lfgdoTgSDCki3c?dUyldHx

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-120, 5-6=-120, 2-7=-20

Concentrated Loads (lb)

Vert: 12=133(F=67, B=67) 13=-42(F=-21, B=-21) 14=-424(F=-212, B=-212) 16=-16(F=-8, B=-8) 17=-56(F=-28, B=-28)

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

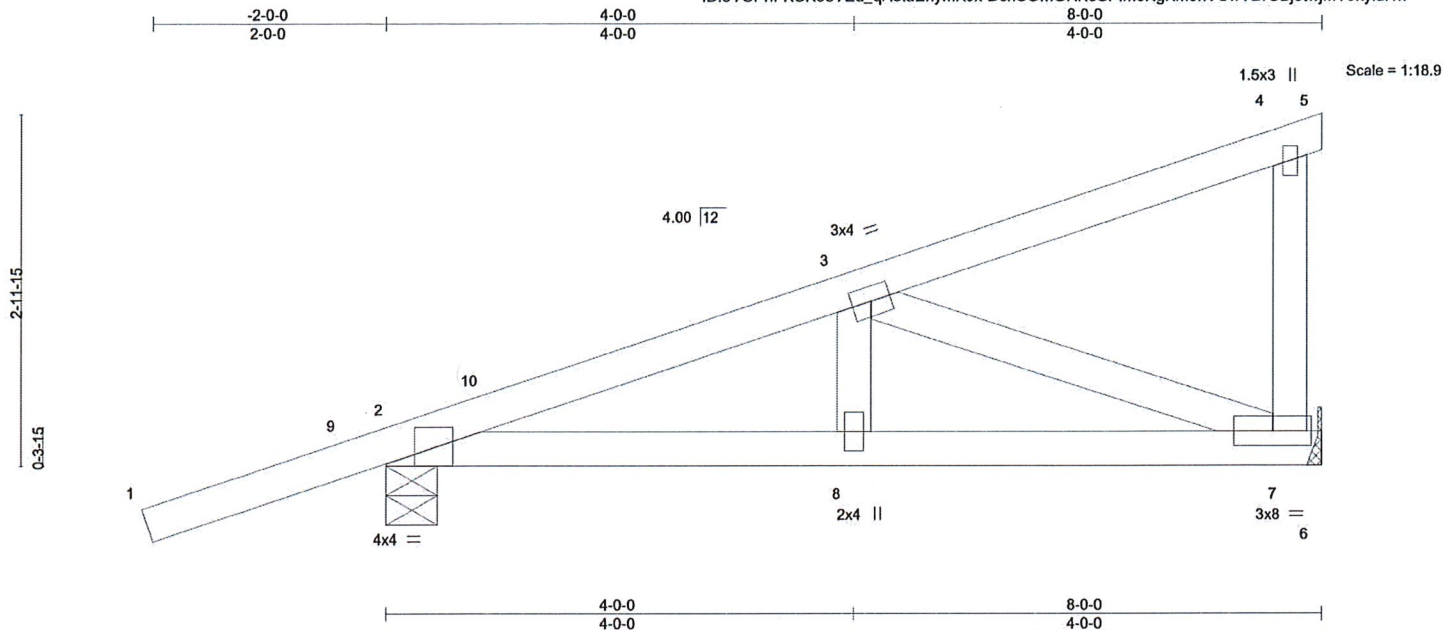


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Job 200542-R3	Truss J02	Truss Type Jack-Closed	Qty 14	Ply 1	Yavapai County Standard plans Job Reference (optional)	R63430528
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Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:36:03 2020 Page 1
ID:9YUPnFKUK98YEd_qA8taEhymKJx-DcnUOmGRK6SPIm6KgXm0hVCwVBrOBj9twjMY9xyldHw



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0 (Roof Snow=40.0)	2-0-0	TC 0.56	Vert(LL)	-0.03	8	>999	MT20	185/144
TCDL 20.0	Lumber DOL 1.15	BC 0.29	Vert(CT)	-0.04	8	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF Stud/Stud

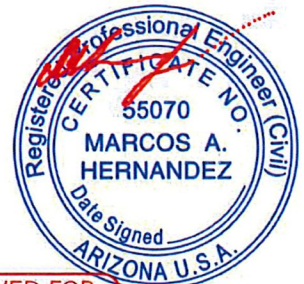
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-5-4
Max Horz 2=114(LC 13)
Max Uplift 7=40(LC 14), 2=-141(LC 14)
Max Grav 7=694(LC 19), 2=1015(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1134/121, 4-7=-302/143
BOT CHORD 2-8=-303/958, 7-8=-303/958
WEBS 3-7=-1020/288

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 8-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to bearing connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=141.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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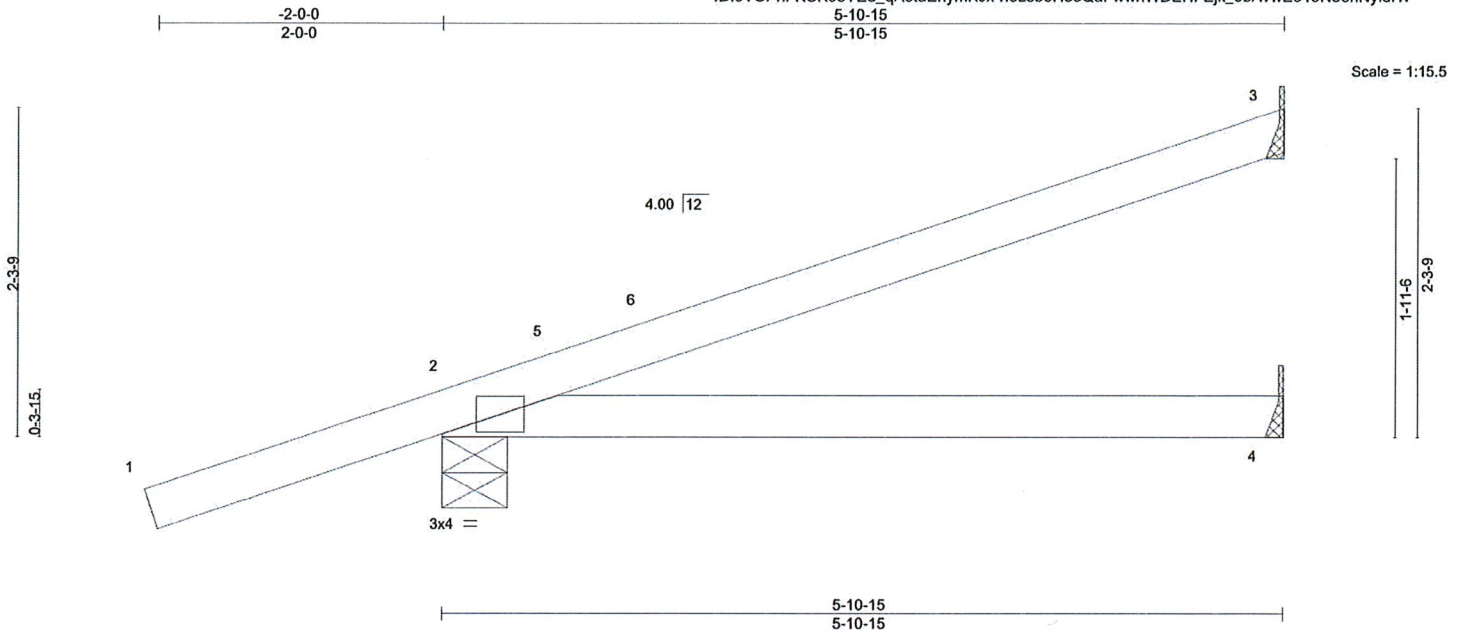


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400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63430529
200542-R3	J03	Jack-Open	7	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:36:04 2020 Page 1
ID:9YUPnFKUK98YEd_qA8laEhymKJx-hoLsb6H35QaFwwhWDEHFEJk_JbAvwE019N56hNylidHv



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0 (Roof Snow=40.0)	Plate Grip DOL	1.15	TC 1.00	Vert(LL)	-0.06	2-4	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.12	2-4	>564	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=95(LC 14)
Max Uplift 3=-49(LC 14), 2=-126(LC 14)
Max Grav 3=382(LC 19), 2=958(LC 19), 4=112(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 5-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=126.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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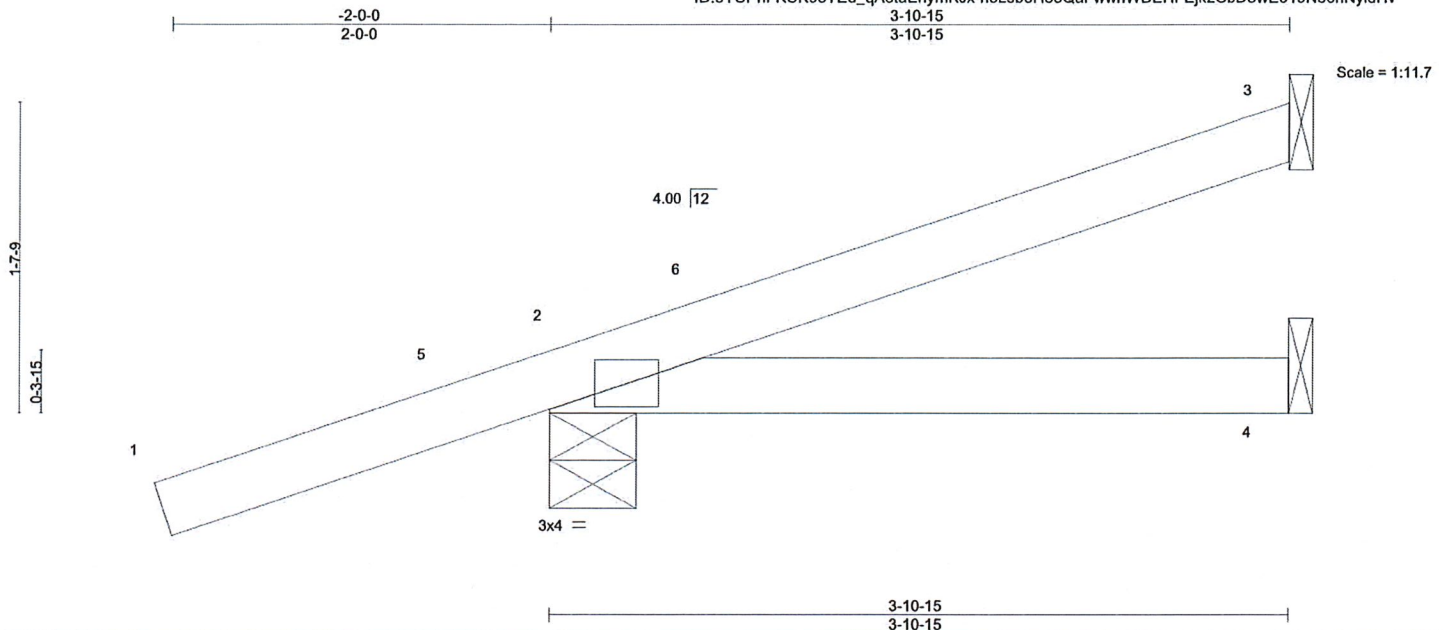


MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job 200542-R3	Truss J04	Truss Type Jack-Open	Qty 8	Ply 1	Yavapai County Standard plans Job Reference (optional)	R63430530
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Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:36:04 2020 Page 1
ID:9YUPnFKUK98YEd_qA8laEhymKJx-hoLsb6H35QaFwwhWDEHFEjk2CbD8wE019N56hNylHv



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0 (Roof Snow=40.0)	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.01	2-4	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

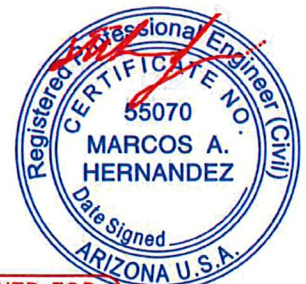
REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=74(LC 14)
Max Uplift 3=-20(LC 11), 2=-127(LC 14)
Max Grav 3=178(LC 19), 2=816(LC 19), 4=72(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=127.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job 200542-R3	Truss J05	Truss Type Jack-Open	Qty 8	Ply 1	Yavapai County Standard plans	R63430531
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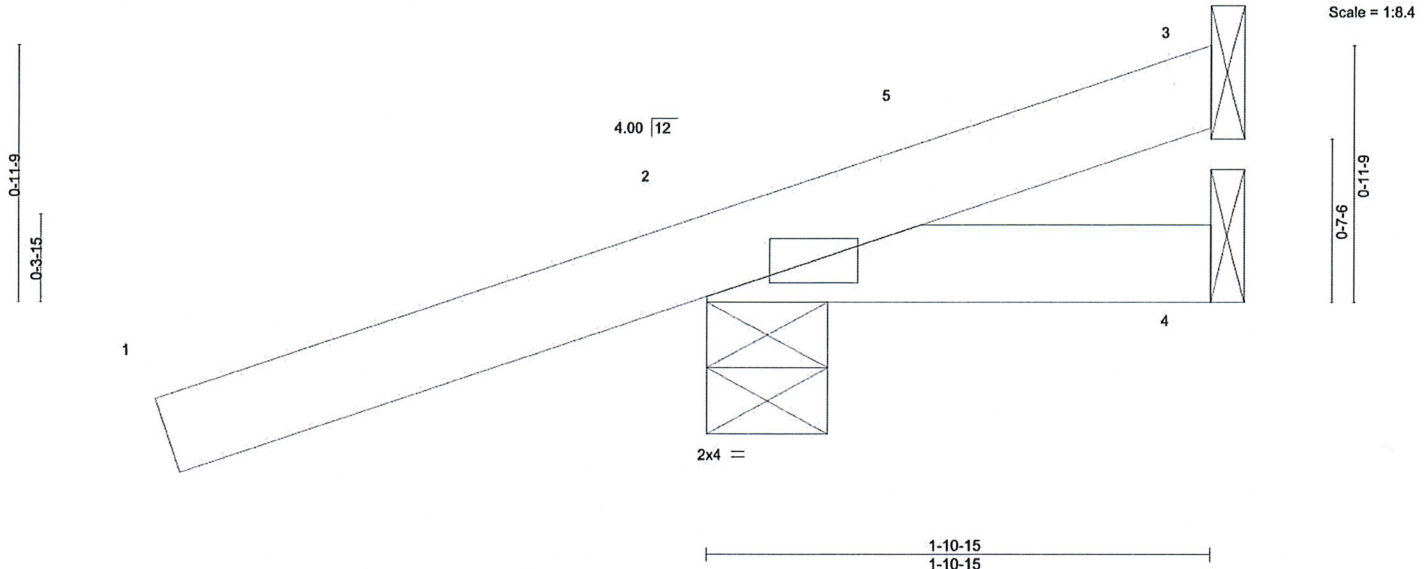
Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:36:05 2020 Page 1

ID:9YUPnFKUK98YEEd_qA8taEhymKJx-97vFpSIhsjj6X4GjnxpUmwHEB7bwfhGAO1rfEpyldHu

Job Reference (optional)

-2-0-0
2-0-0
1-10-15
1-10-15



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0 (Roof Snow=40.0)	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	-0.00 2	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00 2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 7 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

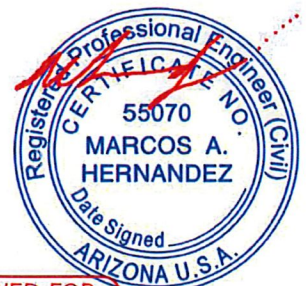
BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=53(LC 14)
Max Uplift 3=-105(LC 18), 2=-133(LC 14)
Max Grav 3=26(LC 14), 2=681(LC 19), 4=37(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 1-10-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=105, 2=133.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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DESIGN CRITERIA
ONLY
EXPIRES: 09/30/2022
August 21, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

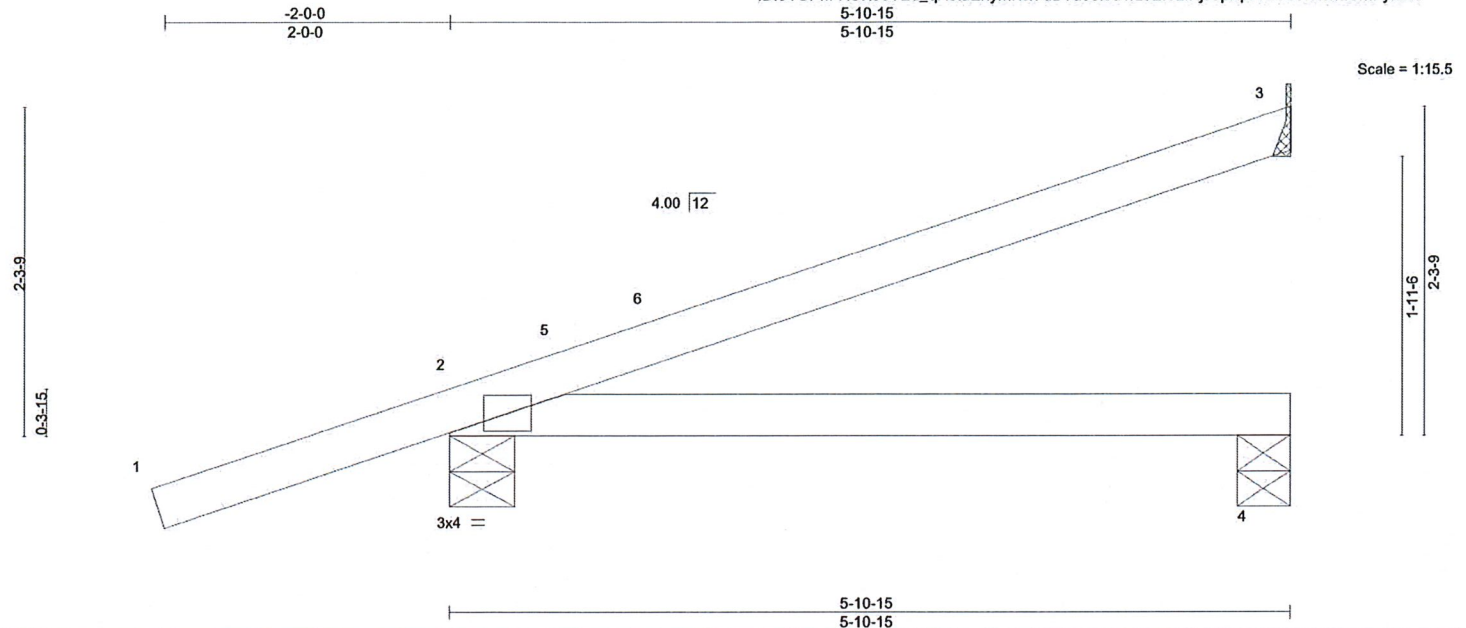


MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job 200542-R3	Truss R1014	Truss Type Jack-Open	Qty 1	Ply 1	Yavapai County Standard plans	R63430532
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Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 21 12:36:06 2020 Page 1
ID:9YUPnFKUK98YEd_qA8taEhymKJx-dBTd0olJd1rz9ErVLFkJ8pKpPrdO8WKchaCmFyldHt



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0 (Roof Snow=40.0)	Plate Grip DOL	1.15	TC 1.00	Vert(LL)	-0.05 2-4	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.11 2-4	>602	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

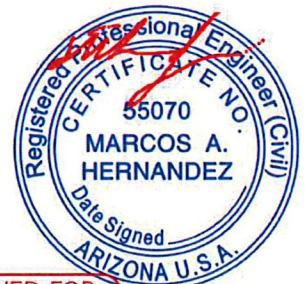
REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=0-4-7
Max Horz 2=95(LC 14)
Max Uplift 3=-49(LC 14), 2=-127(LC 14)
Max Grav 3=382(LC 19), 2=956(LC 19), 4=110(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 5-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=127.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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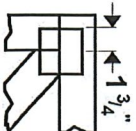
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



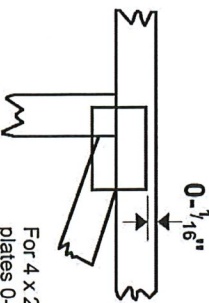
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/8" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MITtek 20/20 software or upon request.

PLATE SIZE

4 X 4

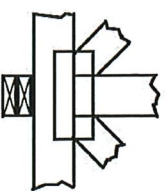
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



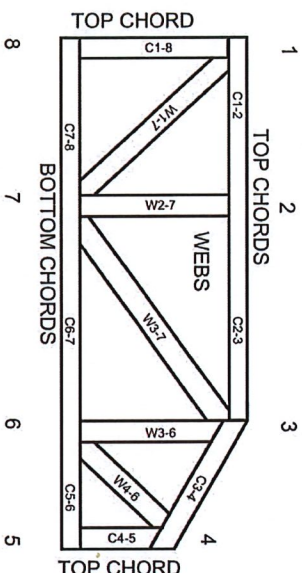
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITtek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces that may require bracing, or alternative Tor 1 bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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